COMMONWEALTH OF KENTUCKY

BEFORE THE ENERGY REGULATORY COMMISSION

* * * * *

In the Matter of

THE NATURAL GAS LEAK INCIDENT ON LOUISVILLE GAS & ELECTRIC COMPANY'S GAS DISTRIBUTION SYSTEM AT VINE GROVE ELEMENTARY SCHOOL, HARDIN COUNTY, KENTUCKY

CASE NO. 7775

ORDER

On August 23, 1979, a natural gas leak was discovered at the Vine Grove Elementary School in Vine Grove, Hardin County, Kentucky.

On August 28, 1979, the Commission received telephonic notice of this incident from Louisville Gas & Electric Company.

On October 25, 1979, a Commission staff inspector completed his investigation of this incident and submitted his Report (Appendix "A").

On November 13, 1979, the Report was forwarded to Louisville Gas & Electric Company with a request that a response be submitted within twenty (20) days.

On December 7, 1979 the Commission received the December 6, 1979 response of Louisville Gas and Electric Company (Appendix "B").

The Commission, having considered the matter and being advised, on its own motion ORDERS that this matter be and it hereby is set for hearing on April 10, 1980 at 10:00 A.M. Eastern

Standard Time in the Commission's Offices at Frankfort, Kentucky.

It is further ORDERED that Louisville Gas and Electric Company shall appear at the scheduled hearing and present testimony relative to this matter.

Done at Frankfort, Kentucky, this 19th day of March, 1980.

ENERGY RECULATORY COMMISSION

For the Commission

ATTEST:

Secretary

REPORT

TO:

John T. Smither, Director

Division of Engineering

THRU:

E. Scott Smith

Chief Engineer, Gas Section

FROM:

R. E. Bruflat

Chief Utility Inspector

SUBJECT

Investigation of Gas Leak Incident on Louisville Gas & Electric

Company (L.G. & E.) System at Vine Grove, Hardin County,

Kentucky Elementary School (School)

DATE:

October 25, 1979

With the recent filing of L. G. & E.'s federal D O T Leak Form Report (DOT F 7100.1) and the receipt of additional information, this finalized Report can be written with the necessary overview.

Subject incident was mishandled at one level in L. G. & E.'s Natural Gas Division (Natural Gas). Certain aspects reflect the need for more effective implementation of L. G. & E.'s system "Emergency Plan" and the lack of periodic gas odorization checks. These communication and training problems have surfaced in prior investigations of incidents on L. G. & E. gas systems, but this Report will outline only those relative to subject incident.

The initial indication of the natural gas leak at the School occurred on Thursday, August 23, 1979, when an employee flicked an electric switch on a wall box in the School's kitchen. There was an explosive blast involving a limited area. The School Principal, Warden Thomas, notified his maintenance people at Elizabethtown (They serve the Hardin County School District from one centrally located facility). Mr. Patterson, Hardin County School Service Supervisor, promptly investigated and attributed the explosion

to electrical problems. On the following morning, Friday, August 24, 1979, Mr. Thomas, School Principal and L. G. & E. the gas company, were notified that there was a gas problem at the School.

The attached sheets -1- and -2- are copies of L. G. & E. records of their notification and response to this incident on 8-24-79 and 8-27-79. Mr. Thomas signed and received a copy of the L. G. & E. notice/authorization from L. G. & E. Employee Cain at 11:45 on 8-24-79 (See bottom of attached Sheet -1-).

There reportedly was some misunderstanding, and/or incomplete directions regarding the evacuation of the School. In the article on attached Sheet -3- State Fire Marshall, Mr. Tom Nickle, clarifies what should have been done; both at the direction of the School officials and the insistence of L. G. & E. service people. Mr. Nickle's office received its notice of the incident from the Vine Grove Police Department on Saturday morning, August 25, 1979.

This Commission received its telephonic notice at 9:30 A.M.,

Tuesday, August 28, 1979. The U.S., DOT, OPSO in Washington, D. C.

(DOT Data Center) received their telephonic notice at 11:15 A. M., Tuesday,

August 28, 1979.

My investigation included interviews with School officials:

Principal Warden Thomas, his secretary Mrs. Kizer and Hardin County Superintendent Charles Akins. My repeated interrogation revealed that they were pleased with L. G. & E.'s response and handling of the incident; but at no time prior to, or during, the incident did they detect—or have reported to them the odor of leaking natural gas. All tests for and concentrations of natural gas were made with various combustible gas indicating (CGI) instruments.

In my investigative contacts with L. G. & E. official representatives (Mr. Don Deering, Assistant Superintendent of Natural Gas; Mr. Bill Neblett, Chief Gas Engineer and Mr. Fred Lutz, Accident Investigator) a historic pattern of service call odorization checks was established and indicated on maps to show the relative location to the School. There were no records of the periodic checks for proper odorant level. Recent immediate area checks and the area service call records, as mapped, indicate that the gas in the main serving the School was adequately odorized.

Attached as Sheets -4- and -5- are pages 15 and 59, respectively, of L. G. & E.'s "Gas Emergency Procedure" ("E" Plan) manual on file with this Commission. The management information requirement in item 9 on page 15 could be interpreted as dependent upon the on site service supervisor's definition of an emergency. The recently revised regulation CFR-192.615 under the Natural Gas Pipeline Safety Act deals in detail with operator requirements that should have made the School situation readily recognizable as an emergency. Sheet -5- (page 59) from L.G. & E.'s "E" Plan lists some outdated information. The undersigned has previously been informed that the L. G. & E. "E" Plan is being updated, and this exemplary page is being used only to cite the importance for some diligent, continuing update activity.

A review of the above, my notes, the regulations and other information on file has led to the following determinations:

- 1. That L. G. & E. has violated Section CFR191.5 "Telephonic notice of certain leaks."
- 2. That L. G. & E. has violated Section CFR192.615 Emergency
 Plans "(b) Each operator shall (2) train the appropriate operating
 personnel to assure that they are knowledgeable of the emergency procedures

and verify that the training is effective." And (d) -- outlining the required education program pursuant to this section.

- 3. That L. G. & E./ Natural Gas has violated 807KAR50:035 Gas Section 6. Odorization (4) Each utility shall make periodic checks to determine that proper level of odorization is maintained and keep records of same.
- 4. That L. G. & E. has been lax, or lacks adequate staff, to properly and periodically update their Emergency Plan and to implement related requirements.

From the above determinations, it is recommended that L. G. & E. be sent a copy of this Report along with a request for detailed responses to items 2 and 4 of the above findings.

It is further recommended that L. G. & E. be cited for the following violations:

- 1. Failure to make prompt and proper telephonic notice of this School incident (CFR191.5).
- 2. Failure to make periodic checks to determine and to keep records of proper odorization level (807KAR50:035 Gas Section 6).

It is further recommended that L. G. & E. be ordered to show cause, if any they can, as to why this Commission should not fine L. G. & E. according to law for these cited violations.

Respectfully submitted,

Chief Utility Inspector

REB/eag

Form SD 398	FOR GAS INSPECTION SECTION
10/1/2/	ne Brone Date 8 - 24-79
Customer's Name Vine Strace E.	lunentary Phone \$77-59-11
Property Owner's Name Nardin Cour	ty Board Ede. Mone 765-4186
Property Owner's Address 110 Swith	Drain Elizabletonia
Class of Leak Found (1) (2) (3)	(Circle one) Bud fatterson
Notice of Gas Leak Card Number 1-1564	Card Returned by You (Yea) (No)
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Location Where Card Was Left	Control of the Contro
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(2) COMPANY METERING OR REGULATING FACILITY (3) SERVICE — COMPANY (4) SERVICE — CUSTOMER	(8) DAMAGE BY OUTSIDE FORCES (IDENTIFY) (9) CONSTRUCTION DEFECT
(5) CUSTOMER METERING OR REGULATION	(11) OTHER
METHOD OF REPAIR! PART THAT LEAKED!	
(12) CLAMP (19) PIPE (20) CAST IRON JOINT	(31) CLASS OF LEAK (1) (2) (3) (32) PRESSURE (1) L (2) E (3) M (4) H
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(16) WELD SLEEVE (73) METER (17) LUBRICATE VALVE (24) STOP (18) OTHER (25) SWIVEL	SIZE 2" MATERIAL (W) (CI) (PL) (ST)
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TIME COMPLETED 2 2 P.M. OEPARTMENT (GAS DIST.) (NAT. GAS)	FURTHER ATTENTION REQUIRED? (YES) (NO)
METER NO	(40) CANCEL REPORT - NO LEAK FOUND
REGULATOR NO.	REPORTED BY: (41) OPERATOR PERSONNEL (42) AGENCY CAUSING DAMAGE (46) PUBLIC
ADDITIONAL INFORMATION CONSTITUTE SCREEN	(42) AGENCY CAUSING DAMAGE (46) PUBLIC (47) OTHER (Specify) (44) POLICE
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Leaking gas closes school at Vine Grove

Associated Press

VINE GROVE, Ky. — Vine Grove
Elementary School was closed yesterday because of a natural-gas leak, but
Hardin County School Superintendent
Charles Akins said there is a possibility
classes could resume by tomorrow.

Akins said that if repairs cannot be completed by tomorrow, an alternative plan would be considered to enable 750 children to return to classes.

"My first knowledge of the leak was Friday morning." Akins said, "but it didn't appear to be serious."

"We turned off the gas Friday," Cal-yn Anderson of Louisville Gas & Elec-tric Co. said. "The leak is the Cislomer's responsibility, and it's up to their plumber or repairman to fix it," he added.

"They will not be having school there intil the problem is corrected," Vine Grove Fire Chief Deward Lee said.

make an crror in judgement, knowing,

the closing

Thursday incident and of the Monday were still being felt.

About 125 angry parents met with. He also told the parents that Vine school officials last night and leveled Grove Elementary School would prob-

natural gas and parental concern tion on the issue of safety in the Vine

have led to a potentially explosive situa-

VINE GROVE, Ky. - Accumulations

By BTLL OSINSKI , Courier-Journal Staff Writer &

Residual pockets of gas discovered

Grove Elementary School.

Manday caused the evacuation of the

the 700-student school.

That followed an incident last Thursany when a cafeteria worker was singed by a spurt of flame from near a fischox in the school kitchen. The cause was de-

and a deputy state fire marshal also were sharply critical of the Hardin County school system's handling of the

Meanwhile, Vine Grove city officials

take a chance with a bunch of kids 'llves?" Hunt said. "You can't assume

Officials had said earlier yesterday repairs on the gas lines are completed,

Jim Hunt, one of the questioners, said that the school will remain closed until he felt Akins made "a drastic error in repairs on the gas lines are complet trying to justify a flip of the colo. Why, which may take several more days.

questions at Hardin County school Su- ably not reopen this week. perintendent Charles Akins.

"It should have been evacuated. Thursday," sold Tom Nickie, the fire

to shift any blame for the incident onto Louisville Gas & Electric Co. advisers

termined to be leaks in the natural-gas

lines into the school.

Akins conceded that he "probably did and onto lower-level school officials.

ŧ

But yesterday the affershocks of The lines were capped Friday.

Another parent, who asked not to be identified, said he felt Akins was trying

anything in an emergency.

situation.

marshal. He also said the school system was negligent in not notifying fire offi-

THE COURIER-JOURNAL, WEDNESDAY, AUGUST 29, 1979

endent should know the procedure."

- Gas company inspectors found leaks

said, "That's the decision I would have." Vine Grove Elementary, said that once made if I'd been called in here." , the leaks were discovered Friday, gas "They should've stayed out," Nickle | Warden Thomas, the principal at

Akins said the problem that led to the . . the cafeteria area. the cause was an electrical explosion explosion Thursday was misdiagnosed because the name seemed, to come at first. The school's repairmen thought from the fusebox, be said. However, there was a suspiction that a main line was capped, they were ad-gas leak might be involved, he said, so, vised by the gas company that it would

cials of the problem as soon as it was Louisville Gas & Electric Co. was noti- be safe for classes to confinue until the discovered. The county school superin- fled the next morning.

the leaks were discovered Friday, gas company officials advised him to evacu-

three rooms near the cafeteria were

School officials said that after the

Seld

pany's advice to school officials was to evacuate the school on Friday. Cal Anderson, an LG&E spokesman, said his firm's investigation of the incident is incomplete. However, the preworkers involved indicate that the comliminary reports from the gas-company It was also a mistake, he said, to hold in the main line coming into the school classes on Friday and Monday.

That was done, he said, and chases in lied primarily on the expertise of the hree rooms near the cafebra were gas company in decisions to open and iso moved. Both Akins and Thomas said they

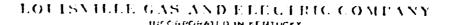
der the advice we received," Thomas "We've done the very best we can un-

ANDIRUCTIONS FOR TERROR IN CHAPTE OF NATURAL GAS FACILITIES



Upon receiving notification of an emergency the person in charge will:

- 1. Obtain as much information as possible about the emergency.
- 2. Analyze the information and inform the Gas Dispatcher or others as to what extent to alert other key personnel as indicated on page 59.
- Assume complete charge of the emergency, if it affects only the Natural Gas Department.
- 4. Check that necessary sections of the Emergency Organization Chart are properly staffed. (See page 7 for personnel who normally fill the Coordinator positions).
- 5. Check that a sufficient number of personnel are being notified and have the Office Coordinator to make a roster of all personnel reporting. The roster should indicate their location and radio call number.
- 6. Determine the extent of the emergency and if it will affect the supply of gas to the system.
- 7. Consult with the Gas Dispatcher Coordinator as to the immediate
 gas requirements and decide if any curtailment will be necessary.
- 8. Consult with the Gas Distribution Superintendent as to what loads to curtail, if there is to be a curtailment.
- 9. Keep management personnel informed throughout the emergency.
- 10. | Haintain contact with all key personnel in both gas departments.
- 11. Determine if it will be necessary to have supervisors schedule their personnel on a shift basis.
- 12. Make final decisions on all functions of each section.



P. O. BOX 32010 LOUISVILLE, KY. 40232 PHONE 502 866-4215

VICE PRESIDENT-OPERATIONS

RECEIVED

December 6, 1979

DEC 71979

ENERGY REGULATORY COMM.
DIVISION OF ENGINEERING

Mr. John T. Smither, Director Division of Engineering & Services ERC/URC P. O. Box 615 Frankfort, KY 40602

Dear Mr. Smither.

In response to your cover letter, dated November 13, 1979, to an investigation of a gas leak at the Vine Grove Elementary School that occurred August 23, 1979, the following comments are submitted. Although detailed responses to Items 2. and 4. in Mr. Bruflat's report were requested, additional comments will be made.

Commenting on Item 1. of the report, a copy of a memo, dated October 15, 1979, and signed by the Chief Engineer of the ERC, regarding telephonic notices, was forwarded to all Natural Cas Department Cas Distribution service sections (copy enclosed). Specific instructions were given to see that the memo was conspicuously posted and made a topic for discussion in subsequent weekly "Tail Cate" Safety Meetings as appropriate.

In response to Item 2. of the report, shortly after the revised 192.615 to part 192 was implemented, a program was initiated to train all departmental Gas Distribution personnel in emergency plan procedures. This was accomplished through training sessions, including formal classroom meetings and assignments of responsibility at the supervisor level. Updating and reinstituting these training sessions has been and will continue to be conducted since the Vine Grove incident. The training can be regarded as being effective.

In reference to Item 4. of the report, the IG&E Company gas emergency procedures is now in process of being up-dated and is expected to be ready for printing by the first week of January 1980. Distribution to company personnel and the Energy Regulatory Commission staff will be about February 15, 1980. Provisions to periodically up-date the procedures have also been made.

Mr. John T. Smither December 6, 1979 Page 2

On the last page of Mr. Bruflat's report, reference is made to the lack of odorization checks and records keeping. Changes in this procedure have been made. Quantitative checks will be made at each odorant injection point every two weeks to confirm proper amounts of odorant being injected, and odorant levels will be monitored at two different points each week in each town or localized Cas Distribution system.

In conclusion, it would seem that a recommendation for a fine in the case of this incident would not be in the spirit of the rules, or consistent with recent Commission actions. Originally, the incident was not recognized by the authorities as a gas emergency, and it was not reported to IG&E until some twenty (20) hours after the occurance. There was no serious injury or loss of property. I hope you concur in this conclusion.

Yours truly,

21. H. M. Sumis

Vice President-Operations

HNMcGinnis/dsb